2010-02-09 General Mu2e meeting

Tuesday, February 09, 2010
9:14 AM

- Email

    - We will hold a Mu2e Accelerator General Meeting tomorrow, Tuesday, Feb 9, at 10:00 a.m. in the WH1E Conference Room. These meetings are now being held roughly every four weeks.
    - Tuesday's Tentative Agenda:
    - L2/3 Management Report,   Mike (10 min)
        - Syphers, pellico, kourbanis, werkema, leveling, michelotti, moore, johnstone, prebys, coleman
        - WBS is forming.
    - Operating Scenario and RF calculations, Mike/Chandra (10 min)
        - momentum stacking
        - bunch formation
    - Beam Line Efforts Report,   Sasha/Carol (15 min)
    - latest layout
    - extinction channel design
    - Extraction Efforts Report,   Leo (10 min)
    - simulations and studies
    - RF-KO
    - Any Other Short Announcements,   All (15 min)
    - To join remotely:
    - Phone Number: 510-665-5437
    - Meeting ID: 6823 (no password)
    - Proposed Agenda for Next Meeting:

    - Reports on --
    - Extinction Efforts
    - Rad Safety Issues and Efforts
    - Target Station Issues and Efforts

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- Current Design - Syphers
    - Hybrid A: thread between NOvA fills
        - 3 booster batches, single pass through Rr, to accumulator
            - □ 4e12 per
        - 4 bunches into Debuncher and individually slow spilled
            - □ 3e12 per bunch, tune shift 0.025
            - □ Experiment 34M per micro bunches
            - □ Total 18Tp/s
    - Hybrid B: thread between NOvA fills
        - Or, you could take 2 at a time to the accumulator, 3x
        - Same rate to experiment, space change down (tune shift 0.017).
        - Duty factor to experiment down a bit
    - Stacking and bunch formation time
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- Mu2e website: http://mu2e.fnal.gov/
- Doc database: http://mu2e-docdb.fnal.gov/

- DC Beam Collimation in Mu2e - Sasha Drozhdin
  - Shows beam line betas and dispersion
    - Kicker, dump 1, dump 2, kicker
- =====
- Extraction - Leo
  - Five in extraction group…steve, vladimir, john johnstone
  - Originally thought spill would be done by collapsing separatrix
  - Looking into 1/2 integer or 1/3 integer extraction.
  - RF knockout, introduction an oscillating E field to gently blow up the beam.
    - E field controlled via amplitude and frequency
    - Have only done this with 3rd integer resonance.
    - Machine studies

- Meet again in 4 weeks.